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DENT 1280: Digital Technology 2

EFFECTIVE DATE

September 2021

DEPARTMENT

Dental Tech

DESCRIPTION

This course builds on the knowledge and skills learned in Digital Technology 1. Digital Technology 2 focuses on creating single unit dental crown patterns with emphasis on aesthetics, form and basic function. Students will continue with AFG (Anatomical Functional Geometry or similar systems) dental anatomy exercises using Dental Computer Aided Design (CAD) software sculpt tools. This course also introduces dental implants and Computer Aided Manufacturing (CAM).

CREDITS

3.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

DENT 1100 Dental Technology Foundations DENT 1110 Biosciences 1 DENT 1130 Professional Practice 1 DENT 1170 Dental Laboratory Patient Care 1 DENT 1180 Digital Technology 1

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Design digitally rendered dental restorations using basic knowledge of dental software.
- Create a single unit fixed prosthetic restorations by applying principles of aesthetics, form and function.
- Create single unit fixed prosthetic restorations by applying computer aided design techniques and principles.
- Use Dental CAD software to design implant restorations.
- Demonstrate knowledge of processing digital impressions.
- Make decisions based on sound reasoning and evidence-based practice when creating virtual restorations.

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lab: 90

INSTRUCTIONAL STRATEGIES

Lectures, demonstrations, lab work, case scenarios, discussion and reflection

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C+ (64%) and (S) Satisfactory Grade for all Lab Work

EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	25	Assignment #1:\nDesign a crown, \ngenerate STL file, \nnest using 3D print software
Final Exam	30	OSPE
Assignments	45	Assignment #2:\nPresentation (20%)\n\nAssignment:\nDesign implant crown (25%)
Lab Work	Satisfactory/Unsatisfactory	Practical Lab Projects

COURSE TOPICS

- Designing digital dental restorations using Dental Computer Aided Design (CAD) software
- Anatomical Functional Geometry (AFG) dental anatomy (or similar systems)
- Basic dental crown design
- Dental implants and implant restorations using CAD software
- Digital Impressions and expansion on dental implants

LEARNING RESOURCES

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
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Annacis Island campus

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